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12 October 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Visit of Mr. David Packard, Deputy Secretary of Defense, to  
NPIC on 12 October 1970

1. Mr. Packard arrived at the Center at 0800, rather than at the appointed time of 0815. Messrs. Lundahl, [redacted] accompanied him into the auditorium.

2. Mr. Lundahl briefly described the display of photography concerning SAM sites in the standstill zone of Egypt. He said that it had been originally prepared for the Secretary of State's visit of 14 September to show him how NPIC derived SAM status information from photography. He also discussed the various photo systems being used over the standstill zone.

3. Mr. Packard was introduced to [redacted] who explained new SAM site construction in the standstill zone since the cease fire treaty was signed. Mr. Packard expressed interest in the number of sites (36) and the fact that a large number was constructed in September. He also showed interest that eleven were presently occupied.

4. [redacted] showed the Secretary photos which portrayed the evolution of site 350. After the briefing, the Secretary said, "That's most impressive."

5. [redacted] showed the Secretary examples of the "foldout" materials prepared for the Secretary of State for possible use in discussion with Egyptian officials. Mr. Packard expressed some concern that satellite photos were being used. He seemed relieved when Mr. Lundahl indicated that no satellite material was included in the packages. He said, "That's all right then." He said that the foldout method was "excellent and sold the case."

6. [redacted] manned the Continued Construction Panel and showed the Secretary examples of the progression of construction since the cease fire. The Secretary was interested in the T-shaped structures and inquired if they were hard. The reply was affirmative. He kidded his aide, [redacted] bomb craters around site 252, noting that a number were misses. He then added, "I like to pull his leg." He was interested in the convoy moving into and out of site 368.

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7. [ ] manned the Changes in Deployment Panel. Mr. Packard asked many questions about the various pieces of equipment that make up a site. He asked about the size of a missile revetment (about 60 feet). He was impressed with the activity at the sites and the movement of the equipment. He said, "There is a lot of work to build these sites isn't there?" He asked if the Egyptians were moving the SAM equipment around. [ ] replied that they were. He asked about the slit trenches in the central guidance area and about the numerous vehicle revetments about the site.

8. [ ] briefed the Secretary on the dummy SAM equipment and SA-3 deployment. The Secretary was interested in the movement of SA-3 equipment into SA-2 sites. He asked for finite differences between the SA-2 and SA-3 sites and was shown the special panels on SA-2 and SA-3 equipment. He asked where the good photography of the equipment was obtained and was told from the Berlin Corridor. He asked about the time required to build a site (normally six to twelve days). He was interested in the LOW BLOW radar and asked how we could distinguish it from the FAN SONG. He was shown a photograph and a model of the LOW BLOW which showed the distinguishing features.

9. [ ] then briefed Mr. Packard on the [ ] camera configurations. The Secretary showed some interest in the oblique photography of the [ ]

10. After seeing the KH-4 mosaic display and hearing that it is used to make accurate maps and charts, he asked Mr. Lundahl a poorly phrased question: "What do you measure?" Mr. Lundahl, in his own inimitable way, answered to the Secretary's satisfaction.

11. After hearing that NPIC is a joint center, the Secretary asked, "How are you tasked for work?" Mr. Lundahl replied there was a national tasking plan which specifies the work we are to accomplish. [ ] sensing that he meant people, said that personnel at the Center are used for tasks they perform best. Mr. Lundahl added that a Navy officer would not necessarily work on naval targets.

12. The Secretary asked, "How has the photography gotten better?" Mr. Lundahl replied the better photography is a function of 14 qualities, but that the three most important are better film, better lens (use of computers for lens design), and the stability of the taking of platform (satellites being more stable than aircraft).

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13. Mr. Lundahl explained that the presentation was just one of 33 that the Center had given from time to time. The Secretary seemed impressed.

14. Mr. Lundahl gave a quick resume of the Center's budget, noting that some  $3\frac{1}{2}$  million dollars is for R&D. He explained that image enhancement is one such R&D contract, that we are trying image enhancement procedures by computer methods [redacted] The Secretary said that enhancement of electronic signals involved the same problem -- eliminating noise levels.

15. While Mr. Lundahl was explaining the improvements in satellite photography over the years, Mr. Packard asked whether the Center was using or was aware of the new [redacted] duplicating film, RS-100. [redacted] assured him that our R&D people are currently investigating this material and that preliminary results have indicated a very short shelf life -- i.e., about two to three months.

16. The Secretary's concluding remark was that "It was a very impressive display and well worth seeing." He thanked Mr. Lundahl and departed from the auditorium at 0845.

[redacted]  
Executive Officer  
Imagery Exploitation Group, NPIC

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